

# **AFSC 1A3X1 AIRBORNE MISSION SYSTEMS**



## **CAREER FIELD EDUCATION AND TRAINING PLAN (CFETP)**

**ACCESSIBILITY:** Publication and forms are available on the e-publishing website at [www.e-publishing.af.mil](http://www.e-publishing.af.mil) for downloading or ordering.

**RELEASABILITY:** There are no releasability restrictions on this publication.

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OPR: HQ USAF/A3O-AM

Certified by: HQ USAF/A3O (Maj Gen James J. Jones)

Pages: 24

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## **CAREER FIELD EDUCATION AND TRAINING PLAN**

### **AIRBORNE MISSION SYSTEMS**

#### **AFSC 1A3X1**

## **PART I**

### **Preface**

1. This Career Field Education and Training Plan (CFETP) is a comprehensive education and training document that identifies life-cycle education/training requirements, training support resources and minimum core task requirements for this specialty. The CFETP will provide personnel a clear career path to success and instill rigor in all aspects of career field training.
2. The CFETP consists of two parts; both of which are used by management to plan, manage, and control training within the career field.
  - 2.1. Part I provides information necessary for overall management of the specialty. Section A explains how everyone will use the plan; Section B identifies career progression information, duties and responsibilities, training strategies, and career field path; Section C associates each level with specialty qualifications (knowledge, education, training, and other); Section D indicates resource constraints. Some examples are funds, manpower, equipment, and facilities. *Note:* The *Air Force Enlisted Classification Directory* (AFECD) and AFI 36-2101 *Classifying Military Personnel (Officer and Enlisted)* contain the specialty descriptions.
  - 2.2. Part II includes the following: Section A identifies the Specialty Training Standard (STS) and includes duties, tasks, technical references to support training, Air Education and Training Command (AETC) conducted training, and correspondence course requirements. Section B contains the course objective list and training standards supervisors will use to determine if Airmen satisfy training requirements. Section C identifies available training support materials. Section D identifies a training course index that is used to determine resources available to support training. Included here are both mandatory and optional courses. Sections E and F identify MAJCOM unique training requirements.
  - 2.3. Attachment 3 to the electronic version of the CFETP is a career path chart. This chart provides a visual depiction of the Airborne Missions Systems AFSC, Career Enlisted Flyers Incentive Pay gates and years of aviation service, and key information to education, training and qualification. It also contains promotion information specific to the Airborne Missions Systems AFSC, such as average time in grade, time in service, as well as Air Force averages. This chart provides a timeline for achieving additional qualifications such as instructor, evaluator, FTU assignment, and leadership opportunities within the squadron, Group, Wing and MAJCOM and HQ/USAF.
3. This CFETP is designed to ensure individuals in AFSC 1A3XX receive comprehensive and effective training at the appropriate phases of their career. At unit level, supervisors and trainers use Part II to identify, plan, and conduct training commensurate with the overall goals of this plan.

## ABBREVIATIONS/TERMS EXPLAINED

**Air Force Career Field Manager (AFCFM).** Representative appointed by the respective HQ USAF Deputy Chief of Staff or Under Secretariat, to ensure assigned AF specialties are trained and utilized to support AF mission requirements.

**Aircrew Fundamentals Course.** A course designed to prepare enlisted personnel for their transition to a career in aviation. Knowledge presented in the course includes physiological, survival, aircrew mission, anti-hijacking and anti-terrorism, aircrew coordination, aircrew training, basic aerodynamics, aircraft publications, safety and flight medicine. This course screens for the ability to handle the rigor of aircrew duties prior to candidates entering expensive follow-on training resources.

**Advanced Training (AT).** Formal course which provides individuals who are qualified in one or more positions of their Air Force Specialty (AFS) with additional skills/knowledge to enhance their expertise in the career field. Training is for selected career airmen at the advanced level of the AFS.

**Aircrew Training System (ATS).** A system wherein a civilian contractor provides academic, simulator, and other designated aircrew training. ATS courses are listed in the applicable AFI 11-2 MDS-Specific, Volume 1 or the Education and Training Course Announcement (ETCA) website (<https://etca.randolph.af.mil>).

**Basic Aircraft Qualification (BAQ).** An aircrew member who has satisfactorily completed training prescribed to maintain the skills necessary to perform aircrew duties in the unit aircraft.

**Basic Mission Capable (BMC).** An aircrew member who has satisfactorily completed mission qualification training, is qualified in some aspect of the unit mission, but does not maintain MR/CMR status.

**Career Development Course (CDC).** A self-paced course designed to upgrade a skill level and provide the information necessary to satisfy the career knowledge component of OJT. They contain information on basic principles, techniques, and procedures common to an AFSC.

**Career Enlisted Aviator (CEA).** An individual with a primary AFSC of 1AXXX or 1UXXX.

**Career Field Education and Training Plan (CFETP).** A CFETP is a comprehensive, core training document that identifies: life-cycle education and training requirements; training support resources, and minimum core task requirements for a specialty. The CFETP aims to give personnel a clear path and instill a sense of industry in career field training.

**Career Enlisted Aviator Center of Excellence (CEA CoE).** The USAF CEA Undergraduate Training Center located at Lackland AFB, TX. Provides undergraduate, initial skills training through award of the 3-skill level.

**Combat Mission Ready (CMR).** An aircrew member who has satisfactorily completed mission qualification training and maintains qualification and proficiency in the command or unit combat mission.

**Continuation Training (CT).** The continuation training program provides crew members with the volume, frequency, and mix of training necessary to maintain proficiency in the assigned qualification level.

**Course Objective Lists (COL).** A publication, derived from the initial and advanced skills CTS, identifying the tasks and knowledge requirements and respective standards provided to achieve a 3- or 7-skill level in this career field. Supervisors use the COL to assist in conducting graduate evaluations.

**Course Training Standard (CTS).** A training standard identifying the training members will receive in a specific course.

**Crew Resource Management (CRM).** The effective use of all available resources—people, weapon systems, facilities and equipment, and environment—by individuals or crews to safely and efficiently accomplish an assigned mission or task. The term “CRM” is used to refer to the training program, objectives, and key skills directed to this end.

**Enlisted Specialty Training (EST).** A mix of formal training (technical school) and informal training (on-the-job) to qualify and upgrade Airmen in each skill-level of a specialty.

**Exportable Training.** Additional training via computer assisted, paper text, interactive video, or other necessary means to supplement training.

**Initial Qualification Training (IQT).** Training needed to qualify aircrew for basic crew duties in an assigned crew position for a specific aircraft, without regard for the unit's operational mission.

**Initial Skills Training.** A formal school course that result in award of a 3-skill level AFSC.

**Instructional System Development (ISD).** A deliberate and orderly, but flexible process for planning, developing, validating, implementing, and reviewing instructional programs. It ensures personnel are taught, in a cost efficient way, the knowledge and skills for successful job performance.

**Lead Command.** A MAJCOM responsible for an assigned weapons system. Lead Commands establish advocacy for designated weapon systems during their life cycle and clarify responsibilities for all using and supporting organizations. They provide primary input into the purpose of developing and maintaining a force structure with a balance of complementary capabilities.

**MAJCOM Functional Manager (MFM).** Primary focal point and liaison between the MAJCOM and HQ USAF on all matters relating to the aircrew career fields and aviation resource management within the command. This includes, but is not limited to, responsibility for the aircrew training programs, coordination on aircrew resource allocations, and managing education, training, and resources for a specific career field(s) for that MAJCOM.

**Major Weapons Systems (MWS).** Several like Mission Design Series (MDS) comprise a Major Weapons System (MWS) category (e.g., the bomber MWS is comprised of the B-1, B-2, and B-52 MDSs).

**Mission Capable (MC).** Status of an aircrew member who has satisfactorily completed mission qualification training but who does not maintain mission ready status.

**Mission Design Series (MDS).** A term used to identify a specific aircraft designation (e.g. C-32A, VC-25A, C-37B).

**Mission Ready (MR).** An aircrew member who has satisfactorily completed mission qualification training and maintains qualification and proficiency in the command or unit operational mission.

**Mission Qualification Training (MQT).** Training needed to qualify a crewmember in an assigned crew position for a specific aircraft to perform the command or unit mission.

**On-the-Job Training (OJT).** A delivery method used to certify personnel in both upgrade (skill level award) and job qualification (duty position certification) training. It is hands-on, over-the-shoulder training conducted at the duty location.

**Practicum.** A means of receiving college credits through Community College of the Air Force (CCAF) Teaching Technology Associates Degree Program for formal schoolhouse instructors. It covers a wide variety of subjects beyond initial instructor qualification.

**Qualification Training (QT).** Actual hands-on task performance training designed to qualify an aircrew member in a specific duty position. This training program occurs both during and after the upgrade training process. It is designed to provide the performance skill/knowledge training required to do a job.

**Resource Constraints.** Resource deficiencies, such as money, facilities, time, manpower, and equipment that preclude desired training from being accomplished.

**Retraining.** An Air Force objective to balance the career force of each AFSC as needed. The retraining program allows individual Airmen a choice of career fields from which to pursue an Air Force career and provides a method to return Airmen disqualified from their current AFSC to a productive status.

**Specialty Training Standard (STS).** An AF publication that describes an AFSC in terms of tasks and knowledge an Airman in that specialty may be expected to perform or to know on the job. Also identifies the training provided to achieve a 3-, 5-, or 7-skill level within an enlisted AFSC. It further serves as a contract between AETC and the functional user to show which of the overall training requirements for an AFSC are taught in formal schools and correspondence courses.

**Standard.** An exact value, a physical entity, or an abstract concept, established and defined by authority, custom, or common consent to serve as a reference, model, or rule in measuring quantities or qualities, establishing practices or procedures, or evaluating results. A fixed quantity or quality.

**Total Force.** All collective Air Force components (active, reserve, guard, and civilian elements) of the United States Air Force.

**Upgrade Training (UGT).** Mandatory training that leads to attainment of higher level of proficiency.

**Utilization and Training Workshop (U&TW).** A forum consisting of the AFCFM, MAJCOM functional managers (MFM), Subject Matter Experts (SME), and AETC training personnel who determine career field training requirements.

**Weapons System Training Package (WSTP).** An instructional course which includes IQT, MQT, and CT designed for use at the unit to qualify or aid qualification in a duty position, program, or on a piece of equipment. The WSTP may be printed, computer based, flying, simulator, or other audiovisual material.

## **Section A - General Information**

### **1. Purpose.**

This CFETP provides information necessary for the Air Force Career Field Manager (AFCFM), MAJCOM functional managers (MFMs), commanders, training managers, supervisors, and trainers to plan, develop, manage, and conduct an effective and efficient career field training program. The plan outlines the training that individuals must receive in order to develop and progress throughout their career. For the purpose of this plan, training is divided into four areas: initial skills, upgrade training (UGT), qualification training (QT), and continuation training (CT). Initial skills training is the Air Force Specialty specific training an individual receives upon entry into the Air Force or upon retraining into this specialty for award of the 3-skill level. Upgrade training identifies the mandatory courses, task qualification requirements, and correspondence course completion required for award of the 5-, 7-, and 9-skill levels. Qualification training is actual hands-on task performance training designed to qualify an airman in a specific duty position. This training program occurs both during and after the upgrade training process. It is designed to provide the performance skills/knowledge training required for the job. Continuation training is additional training either in-residence or exportable advanced training courses, or on-the-job training, provided to personnel to maintain their skills and knowledge beyond the minimum required. The CFETP has several purposes, some are:

- 1.1. Serves as a management tool to plan, manage, conduct, and evaluate a career field training program.
- 1.2. Identifies task and knowledge training requirements for each skill level in this specialty and recommends training and education throughout each phase of an individual's career.
- 1.3. Lists training courses available in the specialty, identifies sources of training, and the training medium.
- 1.4. Identifies major resource constraints that impact full implementation of the desired specialty training program.

### **2. Uses.**

The plan will be used by MFMs and supervisors at all levels to ensure comprehensive and cohesive training programs are available and/or instituted for each individual in the specialty.

- 2.1. Training personnel will develop and revise formal resident, non-resident, and exportable training based on requirements established by the user and documented in Part II of the CFETP. The lead command MFM will work with the AFCFM to develop acquisition strategies for obtaining resources needed to provide the identified training.
- 2.2. MFMs will ensure their training programs complement the CFETP mandatory initial and upgrade skills requirements. Identified requirements can be satisfied by OJT, resident training, contract training, or exportable courses. MAJCOM-developed training to support this AFSC must be identified for inclusion in this plan and must not duplicate available training resources.
- 2.3. Each individual will complete the mandatory training requirements specified in this plan. The list of courses in Part II will be used as a reference to support training.
- 2.4. Personnel in AFSCs 1AXXX or 1U0X1 are exempt from maintaining OJT Training Folders (AF Form 623). That training is certified via AF Form 8 by trained flight examiners. Certification of the AF Form 8 eliminates the requirement to document STS items in this CFETP.

### **3. Coordination and Approval.**

The AFCFM is the approval authority. MAJCOM functional managers and AETC training managers will identify and coordinate on the career field training requirements. The AFCFM will initiate an annual review of this document and coordinate with AETC and MFMs to ensure currency and accuracy. Using the list of courses in Part II, they will eliminate duplicate training. Send applicable inputs/changes to this CFETP through MAJCOM functional managers to HQ USAF/A3O-AM, 1480 Air Force Pentagon, Washington D.C. 20330-1480 or the following organizational email address: [afa3oam.workflow@pentagon.af.mil](mailto:afa3oam.workflow@pentagon.af.mil).



## Section B - Career Progression and Information

### 4. Specialty Description

**4.1. Specialty Summary.** Performs aircrew duties on numerous airborne platforms. Operates, maintains, repairs, and tests airborne communications, sensor, computer, network, and electronic systems. Performs preflight, in-flight, and post-flight duties. Supervises, instructs, and evaluates personnel in operation, maintenance, repair, and test procedures. Establishes, manages and supervises airborne mission system operation and directs aircrew training.

### 4.2. Duties and Responsibilities.

**4.2.1.** Inspects and operates airborne communications, sensors, computers, and electronic systems. Plans, organizes, and coordinates mission activities and materials. Determines aircraft status and coordinates link establishment and network connectivity information. Performs pre-flight, in-flight, and post-flight inspections. Performs initial power-on and testing of airborne communications, sensors, computers, network, and electronic systems. Establishes and maintains voice/data circuits/links and air traffic control (ATC) communications. Repairs and maintains airborne communications, sensors, computers, and electronic systems. Operates aircraft emergency systems and equipment.

**4.2.2.** Performs and supervises airborne equipment operations and maintenance. Initializes, operates, monitors, tests, troubleshoots, isolates malfunctions, and repairs radio, audio distribution, switching, data, cryptologic, anti-jam, satellite communications, RADAR, identification friend or foe (IFF), recording and playback, multiplex, electronic warfare (EW), intercept, analysis, recording, broadcasting, imaging, computer, and network equipment (including ancillary equipment). Monitors displays and indicators for equipment status using technical orders and manuals, test equipment, software diagnostics, voltage checks, resistance measurements, waveform observations, or other tests. Installs, operates, and monitors special support systems. Performs aircraft exterior scanner duties and operates aircraft self-defense systems. Monitors aircraft engine, propeller, hydraulic, pneumatic and flight controls systems. Adheres to communication security (COMSEC) procedures.

**4.2.3.** Establishes, supervises, and directs aircrew training. Develops and directs instruction in equipment operation and troubleshooting. Ensures standardized procedures are used to teach in-flight equipment operation, maintenance, and repair. Determines need for specific instruction, and establishes training programs on airborne systems.

**4.2.4.** Evaluates airborne systems operation and maintenance activities. Evaluates compliance with technical manuals, regulations, and work standards. Serves on or directs airborne systems inspection teams to evaluate in-flight maintenance and operational programs. Interprets inspection reports and prescribes corrective actions.

**4.2.5.** Manages and directs operations and maintenance functions. Ensures effective utilization of resources to accomplish the mission. Maintains operational inspection/maintenance records and documents. Reviews unusual and difficult problems in operation and in-flight maintenance of equipment. Recommends methods, techniques, and procedures to enhance maintenance and operational capabilities, and improve mission system options. Advises on mission systems operation and maintenance; coordinates on research and development projects.

### 5. Skill/Career Progression.

Adequate training and timely progression from the apprentice to the superintendent skill level play an extremely important role in the Air Force's ability to accomplish its mission. Therefore, it is essential that everyone involved in training do their part to plan, develop, manage, conduct, and evaluate an effective and efficient training program. The guidance provided in this part of the CFETP will ensure individuals receive viable training at the appropriate points in their career. The following narrative and the AFSC 1A3XX career field flow charts identify the training career path. They define the training required in an individual's career.

**5.1. Apprentice (3) Level.** Meeting requirements listed in AFI 36-2101, *Classifying Military Personnel (Officer and Enlisted)*, specialty description, completion of the Aircrew Fundamentals Course at Lackland AFB, TX. Initial skills training in this specialty consists of the tasks and knowledge training provided in the 3-skill level resident course (1A331). Tasks and knowledge training requirements are identified in the specialty training standard, at Part II, Section A. Individuals must complete the initial skills course to be awarded AFSC 1A331.

**5.2. Journeyman (5) Level.** Non-prior service trainees must meet all requirements prescribed in the applicable MAJCOM aircrew training directives and a minimum of 12 months upgrade training beginning on the first day of

Initial Qualification Training (IQT). Completion of IQT is required. Individuals in retraining status are subject to the same training requirements and a minimum of nine months in upgrade training.

**5.3. Craftsman (7) Level.** To be awarded AFSC 1A371, the trainee must be a SSgt, complete all 3- and 5-skill level training requirements and meet all requirements as listed in the applicable MAJCOM aircrew training directives and have completed 12 months of upgrade training. Individuals in retraining status are subject to the same training requirements and a minimum of six months in upgrade training.

**5.4. Superintendent (9) Level.** To be awarded AFSC 1A391, an individual must be a SMSgt and have his or her supervisor's recommendation. Additionally, complete any other requirements specified in the *Air Force Enlisted Classification Directory* (AFECD) and AFI 36-2101, *Classifying Military Personnel (Officer and Enlisted)*.

**5.5. Chief Enlisted Manager (CEM).** CEM code is award when selected for promotion to Chief Master Sergeant.

## **6. Training Decisions.**

The CFETP uses a building block approach (simple to complex) to encompass the entire spectrum of training requirements for the Airborne Mission Systems specialty. This CFETP was developed to include life-cycle (day one through retirement) training requirements for this specialty. The spectrum includes a strategy for when, where, and how to meet the training requirements. The strategy must be apparent and affordable to reduce duplication of training and eliminate a disjointed approach to training.

**6.1. Initial Skills Training.** Initial physiological training will be conducted at the Aircrew Fundamentals Course. Significant changes were made in initial skills training. The STS was changed to include Aircrew Fundamentals Course to align common core training amongst all 1AXXX AFSCs. The initial skills training will be revised to provide training needed to prepare graduates for Airborne Mission Systems related positions.

**6.2. Five Level Upgrade Training.** Completion of 12 months of upgrade training starting on the first day of IQT. Individuals in retraining require completion of nine months of upgrade training starting on the first day of IQT. Completion of CDCs is no longer required for 5-skill level upgrade.

**6.3. Seven Level Upgrade Training.** No formal training. The CSAF has approved a variance, eliminating the requirement for in-residence 7-level training for all 1AXXX (Aircrew Operations Career Field) personnel.

## **7. Community College of the Air Force (CCAF) Academic Programs.**

CCAF provides the opportunity to obtain an Associate in Applied Sciences (AAS) Degree. Enrollment in CCAF occurs upon completion of basic military training. Off-duty education is a personal choice but is highly encouraged. See the CCAF web site for program details regarding the AAS degree at: <http://www.au.af.mil/au/ccaf>. Additionally, see the Air Force Virtual Education Center website regarding AAS degree progress at: <https://my.af.mil/afvecprod/>. In addition to its associate degree program, CCAF offers the following:

**7.1. Occupational Instructor Certification.** The College offers the Occupational Instructor Certification to instructors teaching full time in a CCAF affiliated school. To qualify, instructors must complete an instructor course, a Teaching Practicum, have two years teaching experience, hold an associate or higher degree, and be recommended by their commander/commandant.

**7.2. Instructor of Technology & Military Science Degree.** This program is offered to enlisted members who are assigned to CCAF affiliated schools teaching CCAF degree-applicable courses. Applicants must complete three semester hours of CCAF-approved instructor methodology coursework and hold their career-field related CCAF degree or equivalent civilian college degree before registration.

**7.3. Trade Skill Certification.** When a CCAF student separates or retires, a trade skill certification is awarded for the primary occupational specialty. The College uses a competency based assessment process for trade skill certification at one of four proficiency levels: Apprentice, Journeyman, Craftsman/Supervisor, or Master Craftsman/Manager. All are transcribed on the CCAF transcript.

**7.4. Degree Requirements.** All Airmen are automatically entered into the CCAF program. The current program associates degree available from the CCAF for AFSC 1A3XX is the Information Systems Technology Associate of Applied Science degree. Prior to completing an associate degree, the 5-skill level must be awarded and the following requirements in Table 1 must be met.

**Table 1 Degree Requirements**

Subject Area	Semester Hours
Technical Education	24
Leadership, Management, and Military Studies	6
Physical Education	4
General Education	15
Program Elective	15
<b>Totals</b>	<b>64</b>

**7.4.1. Technical Education (24 Semester Hours):** Twenty-four semester hours are required to fulfill the technical education requirement. A minimum of 12 semester hours of technical core subjects or courses must be applied and the remaining semester hours applied from technical core or technical elective subjects or courses. Requests to substitute comparable courses or to exceed specified semester hour values in any subject or course must be approved in advance by the Technical Branch at CCAF.

**Table 2 Technical Core (12-24 Semester Hours)**

Subjects/Courses	Max Semester Hours
Aerospace Control and Warning Systems	24
CCAF Internship	18
Computer Networking	6
Radio Communications	6
Space Systems Operations	24

**Table 3 Technical Electives (0-12 Semester Hours)**

Subjects/Courses	Max Semester Hours
Astronautics	3
Astronomy	3
Aviation/Flight Safety	3
Basic Electronics Theory/Application	6
Computer Science	6
Enlisted Professional Military Education	12
Management Information Systems	3
Programming Languages	6
Solid-State Theory/Application	3
Space Propulsion	3
Survival Training	3
Technical Writing	3

**7.4.2. Leadership, Management, and Military Studies (6 Semester Hours):** Professional Military Education and/or civilian management courses. See *CCAF General Catalog* for application of civilian management courses.

**7.4.3. Physical Education (4 Semester Hours):** This requirement is satisfied by completion of Basic Military Training.

**7.4.4. General Education (15 Semester Hours):** Applicable courses must meet the criteria for application of courses to the General Education Requirement (GER) and be in agreement with the definitions of applicable General Education subject/courses as provided in the CCAF general catalog.

**Table 4 General Education Requirements**

<b>Subject/Courses</b>	<b>Semester Hours</b>
Oral Communication (speech)	3
Written Communication (English composition)	3
Mathematics (intermediate algebra or college-level mathematics)	3
Social Science (anthropology, archaeology, economics, geography, government, history, political science, psychology, sociology)	3
Humanities (courses in fine arts (criticism, appreciation, historical significance, foreign language, literature, philosophy, religion)	3

**7.4.5. Program Elective (15 Semester Hours):** Satisfied with applicable Technical Education, Leadership, Management, and Military Studies or General Education subjects/courses.

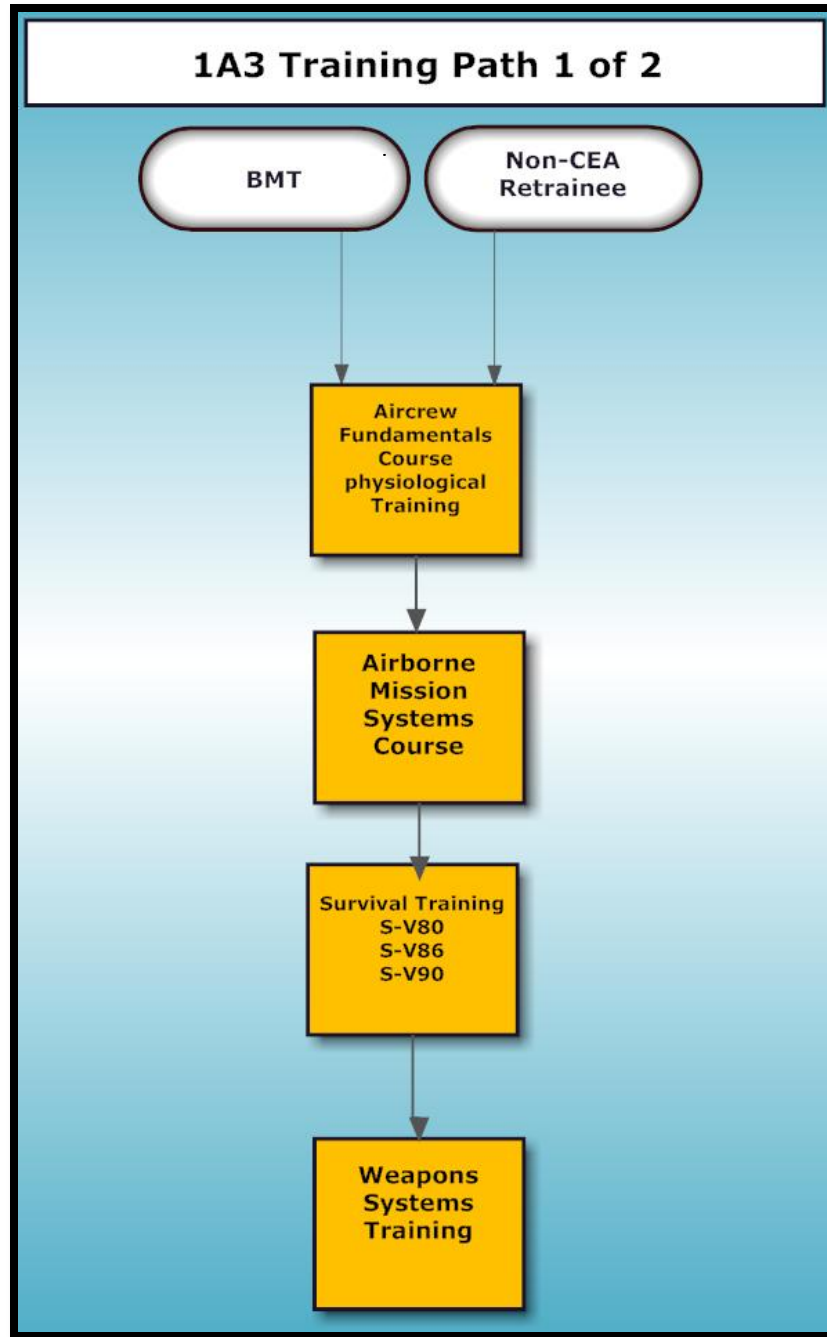
7.5. Additional off-duty education is a personal choice that is encouraged for all. Individuals desiring to become an Air Education and Training Command Instructor should be actively pursuing an associate's degree. A degreed faculty is necessary to maintain accreditation through the Southern Association of Colleges and Schools.

**Table 5 1A3X1 Assignment Locations**

LOCATION	CMS	SMS	MSG	TSG	SSG	SRA	A1C
Barksdale AFB, LA			X				
Beale AFB, CA		X		X	X	X	
Cannon AFB, NM				X	X		
Davis-Monthan AFB, AZ	X	X	X	X	X	X	X
Edwards AFB, CA		X	X	X			
Eglin AFB, FL			X	X	X	X	X
Ft Bragg, NC			X	X	X		
Ft George Meade, MD			X				
Geilenkirchen, GE (NATO)		X	X	X	X		
Greenville, TX		X	X	X			
Hurlburt Field, FL		X	X	X	X		
JB Anacostia-Bolling, DC			X				
JB Andrews Naval Air Facility, MD	X	X	X	X	X	X	X
JB Elmendorf-Richardson, AK		X	X	X	X	X	X
JB Langley-Eustis, VA	X	X	X				
JB Pearl Harbor-Hickam, HI			X	X	X		
Kadena AB, JA	X		X	X	X	X	X
Kirtland AFB, NM			X	X	X	X	
Lackland AFB, TX			X	X	X	X	
MacDill AFB, FL			X	X	X	X	
Melbourne, FL				X	X		
Moody AFB, GA		X	X	X	X	X	X
Offutt AFB, NE	X	X	X	X	X	X	X
Pentagon			X				
RAF Mildenhall, UK			X	X	X	X	
Ramstein AB, GE		X	X	X	X	X	
Randolph AFB, TX	X						
Robins AFB, GA	X	X	X	X	X	X	X
Scott AFB, IL			X				
Seattle, WA			X	X			
Tinker AFB, OK	X	X	X	X	X	X	X
Waco, TX			X				
Wright Patterson AFB, OH	X	X					
<p><i>NOTE:</i> The authorizations listed above are subject to change without notice. Crewmembers interested in assignments to locations listed should consult their MAJCOM functional manager or the AFPC resource manager for more detailed information about requirements for a specific location Current as of 18 December 2012</p>							

**8. Career Field Flow Charts.**

Figure 1 1A3X1 Training Path 1 of 2 .....15  
Figure 2 1A3X1 Training Path 2 of 2 .....16



**Figure 1 1A3X1 Training Path 1 of 2**

8.1. The flow outlined in figure 1 (above) represents the formal training courses required for personnel entering and becoming fully qualified in the AIRBORNE MISSION SYSTEMS. The locations, course lengths, and titles are subject to change. Changes will be updated in the Education Training Course Announcement by the course owner.

8.1.1. The course flow has been developed and agreed upon by the MAJCOM functional managers to minimize days students are awaiting training and to ensure survival training is received prior to AFSC award--minimizing the impact of not having the prerequisites completed before entering weapons system training.

8.1.2. Personnel graduating from the Lackland AFB course are awarded AFSC 1A331 and are authorized to wear the Basic Aircrew Member Badge. Wear and permanent awarding requirements of the Basic Aircrew Member Badge will be IAW AFI 11-402, *Aviation and Parachutist Service Aeronautical Ratings and Badges* and MAJCOM supplements. Failure to complete initial qualification training (IOT) is justification for supervisors to recommend revocation of wear of



Figure 2 1A3X1 Training Path 2 of 2



**Table 6 1A3X1 Enlisted Education and Training Path**

<b>Enlisted Education and Training Path</b>					
<b>Education and Training Requirements</b>	<b>GRADE REQUIREMENTS</b>				
	Rank	Earliest Sew-on	Air Force Average	1A3X1 Average	High Year of Tenure (HYT)
<b>Basic Military Training School (BMTS)</b>					
<b>Apprentice Technical School (3-Skill Level)</b>	Amn A1C	6 months 10 months			
<b>Upgrade To Journeyman (5-Skill Level)</b> - Minimum 12 months on-the-job training - Minimum 9 months on-the-job training for retrainees - Recommendation by supervisor with commander approval	Amn A1C SrA	28 months	3 years	3 years	8 years
<b>Airman Leadership School (ALS)</b> - Must be a SrA with 48 months time in service or be a SSgt selectee (ARC: Must be a SrA with 42 months time in service to accomplish ALS by correspondence) - Resident graduation is a prerequisite for SSgt sew-on (Active Duty Only)					
<b>Upgrade To Craftsman (7-Skill Level)</b> - Minimum rank of SSgt - 12 months OJT - 6 months OJT for retrainees	SSgt	3 years	4.45 years	5.1 years	15 years
<b>Noncommissioned Officer Academy (NCOA)</b> - Must be a TSgt or TSgt selectee - Resident graduation is a prerequisite for MSgt sew-on (Active Duty Only) - Resident or correspondence graduation is a prerequisite for MSgt sew-on (ARC Only)	TSgt	5 years	10.5 years	9.2 years	20 years
<b>USAF Senior NCO Academy (SNCOA)</b> - Must be a SMSgt-select, or a MSgt to attend - Resident graduation is a prerequisite for SMSgt sew-on (Active Duty Only) - Resident or correspondence graduation is a prerequisite for SMSgt sew-on (ARC Only)	MSgt	8 years	15.6 years	15 years	24 years
<b>Upgrade to Superintendent (9-Skill level)</b> - Minimum rank of SMSgt	SMSgt	11 years	19.3 years	19.5 years	26 years
<b>Chief Enlisted Manager (CEM)</b> - Minimum rank of CMSgt - Completed SNCO Academy (Active Duty Only)	CMSgt	14 years	22.3 years	23.5 years	30 years
Data current as of 18 December 2012					

## Section C - Skill Level Training Requirements

### 9. Purpose.

Skill level training requirements in this career field are defined in terms of task and knowledge requirements. This section outlines the specialty qualification requirements for each skill level in broad, general terms and establishes the mandatory requirements for entry, award, and retention of each skill level. The specific task and knowledge training requirements are identified in the STS and the Course Objective List at Part II, Section A and B of this CFETP.

### 10. Specialty Qualifications:

#### 10.1. Apprentice Level Training:

##### 10.1.1. Specialty Qualification.

10.1.1.1. **Knowledge.** Knowledge is mandatory of: electronic, computer, radio, and RADAR theory including solid-state components, electronic principles, networking, digital techniques, basic software structure, principles of radio frequency (RF) as applied to basic RADAR, voice and data communication systems, digital data processing; general purpose computers and interface units; interpreting technical orders, schematics, and wiring diagrams, logic diagrams; worldwide communications, direction-finding, multiplex, data and voice procedures capabilities, limitations, operations, and functions of electronic test equipment; binary, and hexadecimal numbering systems, mission systems' forms and reports, software diagnostic routines; maintaining airborne weapons systems and ancillary systems.

10.1.1.2. **Education.** For entry into this specialty, completion of high school or general educational development (GED) equivalency is mandatory. Also, completion of courses in physics, computer principles, mathematics, typing, speech, and English is desirable. A minimum ASVAB electronics score of 70 is required.

10.1.1.3. **Training.** For award of AFSC 1A331, individuals must meet mandatory requirements listed in the AFECDC. Completion of the Aircrew Fundamentals Course at Lackland AFB, Texas is mandatory for pipeline and non-aviation service cross training students. Completion of the Airborne Mission Systems at Lackland AFB, TX is mandatory for award of the 3-skill level AFSC.

10.1.1.4. **Other.** The following are mandatory as indicated:

10.1.1.4.1. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standard*.

10.1.1.4.2. For entry, award, and retention of this AFSC, physical qualification for aircrew duty according to AFI 48-123, *Medical Examination and Standards*.

10.1.1.4.3. For entry, award, and retention of AFSC, Qualification for aviation service according to AFI 11-402, *Aviation and Parachutist Service, Aeronautical Ratings and Badges*.

10.1.1.4.4. For entry, award, and retention of AFSCs 1A311/31/51/71, physical qualification for voice communications operations.

10.1.1.4.5. For award and retention of AFSCs 1A331/51/71/91/00, eligibility for a Top Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

10.1.1.4.6. Completion of SERE Training Course (S-V80) and Water survival Training Course (S-V86 and/or S-V90) is mandatory for all 1A3X1 personnel. Members selected for duty on C-130 require S-V86-A and those members selected for the RC-135 program will also attend S-V83.

10.1.1.4.7. Must maintain eligibility to deploy and mobilize worldwide.

10.1.2. **Training Sources.** Completion of the Airborne Mission Systems course at Lackland AFB, TX satisfies the knowledge and training requirements specified in the specialty qualification section (above) for award of the 3-skill level.

10.1.3. **Implementation.** Entry into training is accomplished by initial accessions from Basic Military Training School (BMTS) or approved retraining from any AFSC. After graduation from 3-level awarding course, initial qualification training (IQT) begins when the individual enters formal flight training. Thereafter, upgrade training is initiated anytime an individual is assigned duties they are not qualified to perform.

## **10.2. Journeyman Level Training 5-Level Training:**

10.2.1. **Specialty Qualification.** All qualifications for AFSC 1A331 apply to the 1A351 requirements.

10.2.1.1. **Knowledge.** In addition to knowledge required for the 3-level and other qualifications as listed above, the trainee must possess the knowledge and skills necessary to operate and maintain Airborne Mission Systems. Completion of qualification criteria in current assigned aircraft is mandatory.

10.2.1.2. **Education.** To assume the rank of SSgt, the individual must be a graduate of Airman Leadership School (ALS).

10.2.1.3. **Training.** The following training is mandatory for the award of the 5-skill level:

10.2.1.3.1. Complete the resident and informal training for the assigned weapon system.

10.2.1.3.2. Training must meet task requirements established in the STS.

10.2.1.4. **Experience.** Qualification in and possession of AFSC 1A331. In addition, experience operating and maintaining their primarily assigned systems.

10.2.1.5. **Other.** See paragraph 10.1.1.4

10.2.2. **Training Sources.** Refer to Part II, Section D, Training Course Index.

10.2.3. **Implementation.** Entry into journeyman upgrade is accomplished after the trainee completes initial qualification training at their first duty location.

## **10.3. Craftsman Level Training 7-Level Training:**

10.3.1. **Specialty Qualification.** Qualification in and possession of AFSC 1A351.

10.3.1.1. **Knowledge.** In addition to knowledge required for the 5-skill level and other qualifications as listed above, an individual must possess the knowledge and skills necessary to supervise personnel, operate and maintain Airborne Mission Systems equipment.

10.3.1.2. **Education.** To assume the grades of SSgt and MSgt, individuals must be graduates of the Airman Leadership School (ALS) and the NCO Academy, respectively.

10.3.1.3. **Training.** Be at least a Staff Sergeant, 12 months in upgrade training (6 months for retrainees) and recommendation by the supervisor is mandatory for award of the craftsman AFSC. The CSAF has approved a variance eliminating the requirement for in-residence 7-skill level training for all CEA career Fields. However, minimum rank of SSgt and 12 months on-the-job training still apply.

10.3.1.4. **Experience.** Qualification in and possession of AFSC 1A351. Also, experience and qualification in advanced operations and maintenance of aircraft mission systems.

10.3.1.5. **Other.** See paragraph 10.1.1.4.

10.3.2. **Training Sources.** The STS identifies all tasks required for qualification.

10.3.3. **Implementation.** Trainees selected for promotion to SSgt will enter 7-level upgrade training the first day of the promotion cycle, (1 September of each year). The only exception is promotion under the Stripes for Exceptional Performers (STEP) program. Additionally, qualification training is initiated anytime an individual is assigned duties they are not qualified to perform.

## **10.4. Superintendent Level Training 9-Level Training:**

10.4.1. **Specialty Qualification.**

10.4.1.1. **Knowledge.** In addition to knowledge required for the 7-skill level qualification, an individual must possess advanced skills and knowledge of concepts and principles in the effective management of Airborne Mission Systems equipment and personnel.

10.4.1.2. **Education.** Completion of the in-resident USAF Senior NCO Academy or sister service equivalent. Additionally, at this level, award of the Community College of the Air Force (CCAF) Associate of Applied Science degree in this field is the Air Force standard.

10.4.1.3. **Training.** Must hold the rank of Senior Master Sergeant (SMSgt) and have supervisor's recommendation for award of the 9-skill level (active duty only).

10.4.1.4. **Experience.** Qualification in and possession of AFSC 1A371. Also, experience managing advanced operations and maintenance of aircraft mission systems.

10.4.1.5. **Other.** See paragraph 10.1.1.4.

10.4.2. **Training Sources.** USAF Senior NCO Academy (or sister service equivalent).

10.4.3. **Implementation.** Upgrade training is initiated when the individual possesses the 7-skill level and holds the rank of SMSgt. Qualification training is initiated anytime an individual is assigned duties they are not qualified to perform.

## **Section D - Resource Constraints**

### **11. Purpose.**

This section identifies known resource constraints that preclude optimal/desired training from being developed or conducted, including information such as cost and manpower. Narrative explanations of each resource constraint and an impact statement describing what effect each constraint has on training are included. Also included in this section are actions required, office of primary responsibility, and target completion dates. Resource constraints will be reviewed and updated at least annually.

### **12. Apprentice Level Training.**

None identified.

### **13. Journeyman Level Training.**

None identified.

### **14. Craftsman Level.**

None identified.

**BY ORDER OF THE SECRETARY OF THE AIR FORCE**

**OFFICIAL**

**JAMES J. JONES, Maj Gen, USAF**  
**Director of Operations**  
**DCS, Operations, Plans & Requirements**

## **PART II**

### **Section A - Specialty Training Standard (STS)**

#### **1. Implementation.**

This STS will be used for technical training provided by AETC for classes beginning January 2012.

#### **2. Purpose.**

As prescribed in AFI 36-2201, this STS:

2.1. Lists in column 1 of attachment 2, the tasks, knowledge, and technical references (TR) necessary for airmen to perform in the 3- and 5-skill level AFSC in the Airborne Mission Systems ladder of the Aircrew Operations Career Field. These are based on an analysis of the duties listed in AFI 36-2101, Classifying Military Personnel (Officer and Enlisted).

2.2. Column 2 (3-Skill Level and 5-Skill Level) shows formal training and correspondence course requirements as described in the Education and Training Course Announcements (ETCA) web site at: <https://etca.randolph.af.mil/> and the career knowledge provided by the correspondence course. There are no CDCs listed for this AFSC.

2.3. **Qualitative Requirements.** Attachment 1 contains the proficiency code key used to indicate the level of training and knowledge provided by resident training and career development courses.

2.4. Is a guide for development of promotion tests used in the Weighted Airmen Promotion System (WAPS). Specialty Knowledge Tests (SKTs) are developed at the USAF Occupational Measurement Squadron by senior NCOs with extensive practical experience in their career fields. The tests sample knowledge of STS subject matter areas judged by test development team members to be most appropriate for promotion to higher grades. Questions are based on study references listed in the WAPS study catalog. Individual responsibilities are in AFI 36-2605.

#### **3. Recommendations.**

Report unsatisfactory performance of individual course graduates to 37 TRG/DOS, 1220 Truemper Street, Suite 1, Lackland AFB TX 78236-5568. Please reference specific STS paragraphs.

3 Attachments:

1. Qualitative Requirements
2. STS: Airborne Mission System Specialty (1A3X1)
3. CFETP Career Path Chart: 1A3X1

## **Section B - Course Objective List**

### **4. Measurement.**

Each objective is indicated as follows: **W** indicates task or subject knowledge which is measured using a written test, **PC** indicates required task performance which is measured with a performance progress check, and **PC/W** indicates separate measurement of both knowledge and performance elements using a written test and a performance progress check. **P** indicates performance test only.

### **5. Standard.**

The standard is 85% on written examinations. Standards for performance measurement are indicated in the objective and delineated on the individual progress checklist. Instructor assistance is provided as needed during the progress check, and students may be required to repeat all or part of the behavior until satisfactory performance is attained.

### **6. Proficiency Level.**

Most task performance is taught to the “2b” proficiency level which means the students can do most parts of the task, but does need assistance on the hardest parts of the task (partially proficient). The student can also determine step-by-step procedures for doing the task.

### **7. Advanced Skills Course.**

*NOTE:* There is currently no advanced course. This area is reserved.

## **Section C - Support Material**

### **8. Support Material.**

The following list of support materials is not all-inclusive; however, it covers the most frequently referenced areas.

*NOTE:* This area is reserved.

## **Section D - Training Course Index**

### **9. Purpose.**

This section of the CFETP identifies training courses available for the specialty and shows how the courses are used by each MAJCOM in their career field training programs.

**Table 7 Air Force In-Residence Courses.**

<b>COURSE NUMBER</b>	<b>COURSE TITLE</b>	<b>LOCATION</b>
L2AQR1A911 01AA	Aircrew Fundamentals Course – Airborne Mission Systems	Lackland AFB
L3ABR1A331 048B	Basic Airborne Mission Systems – Undergraduate Flying Training	Lackland AFB
S-V80-A	Combat Survival Training	Fairchild AFB
S-V83-A	Special Survival	Fairchild AFB
S-V86-A	Water Survival Training (Parachuting)	Pensacola NAS
S-V90-A	Water Survival Training (Non-Parachuting)	Fairchild AFB
AMC AAMOC	Advanced Air Mobility Operations Course	JB MDL, NJ

**Table 8 Air Mobility Command Advanced Distributed Learning Service (ADLS) Courses**

<b>COURSE NUMBER</b>	<b>COURSE TITLE</b>	<b>WEBSITE</b>
WBT AMOC	Introduction to Air Mobility Operations Course	<a href="https://amc.csd.disa.mil/">https://amc.csd.disa.mil/</a>
FEMO	Fundamentals of Expeditionary Mobility Operations	<a href="https://amc.csd.disa.mil">https://amc.csd.disa.mil</a>
STAGE	Stage Management Course	<a href="https://amc.csd.disa.mil">https://amc.csd.disa.mil</a>

## Section E - MAJCOM Unique Requirements

The following list of MAJCOM unique requirements is not all-inclusive; however, it covers the most frequently referenced areas.

**Table 9 Air Combat Command Courses.**

<b>COURSE NUMBER</b>	<b>COURSE TITLE</b>	<b>LOCATION</b>
E3BQACS-O	E-3 Communications Systems Operator IQT	Tinker AFB, OK
E3BQACT	E-3 Communications Technician IQT	Tinker AFB, OK
E3BQCDMT	E-3 Computer Display Maintenance Technician IQT	Tinker AFB, OK
E3BQART	E-3 Airborne Radar Technician IQT	Tinker AFB, OK
E4BAMSS-CORE	E-4B Common Core Academics	Offutt AFB, NE
E4BAMSS-DATA	E-4B DATA Communications Operator Qual/Requal	Offutt AFB, NE
E4BAMSS-DATA-A	E-4B Data Communications Operator A Qualification Course	Barksdale AFB, LA
E4BAMSS-RO	E-4B Radio Operator Qualification & Requalification	Offutt AFB, NE
E4BAMSS-SE1	E-4B Systems Engineer #1 Qualification & Requalification	Offutt AFB, NE
E4BAMSS-SE2	E-4B Systems Engineer #2 Qualification & Requalification	Offutt AFB, NE
E4BAMSS-WIRE	E-4B Dual Trailing Wire Antenna Operator Qual/Requal	Offutt AFB, NE
RC135VASE-1	RC-135V/W Rivet Joint Airborne Systems Engineer #1 I/MQT	Offutt AFB, NE
RC135VASE2	RC-135V/W Rivet Joint Airborne Systems Engineer #2 I/RQT	Offutt AFB, NE
RC135UASE-1/2	RC-135U Airborne Systems Engineer 1/2 Qual/Requal	Offutt AFB, NE
RC135UASE3	RC-135U Airborne Systems Engineer 3 Qual/Requal	Offutt AFB, NE
RC135SASE1	RC-135S 1 Qualification and Requalification	Offutt AFB, NE
RC135SASE2	RC-135S Airborne Systems Engineer 2 Qual/ Requal	Offutt AFB, NE
CCALLAMT	EC-130H Compass Cal Airborne Maintenance Tech Course	Davis Monthan AFB, AZ
CCALLAMT/TX1	EC-130H Compass Cal Airborne Maintenance Tech TX1	Davis Monthan AFB, AZ
CCALLAMT/TX2	EC-130H Compass Cal Airborne Maintenance Tech TX2	Davis Monthan AFB, AZ
CCALLAMT/TX3	EC-130H Compass Cal Airborne Maintenance Tech TX3	Davis Monthan AFB, AZ
E8CST-QT	E-8 Communications Systems Technician-Qual Training	Robins AFB
E8CST-RQ	E-8 Communications Systems Technician Requal Training	Robins AFB
E8CST-TX	E-8 Communications Systems Technician Transition Training	Robins AFB
E8ART-QT	E-8 Airborne Radar Technician Qualification Training	Robins AFB
E8ART-RQ	E-8 Airborne Radar Technician 2 Requalification Training	Robins AFB
E8ART-TX	E-8 Airborne Radar Technician 2 Transition Training	Robins AFB
E8IART	E-8 Instructor Airborne Radar Technician	Robins AFB

**Table 10 Air Education and Training Command Courses.**

<b>COURSE NUMBER</b>	<b>COURSE TITLE</b>	<b>LOCATION</b>
MC130P-IK-UQ	MC-130P Instructor Communication Electronic Specialist Upgrade Qualification	Kirtland AFB, NM
MC130P-MK-IQ	MC-130P Airborne Mission System Specialist I/MQT	Kirtland AFB, NM
MC130P-MK-SR	MC-130P Mission Airborne Mission Systems Specialist Simulator Refresher	Kirtland AFB, NM
HC130P/N-MK-IQ	HC-130P/N Mission Airborne Mission Systems Specialist IQT	Kirtland AFB, NM
HC130P/N-MK-SR	HC-130P/N Mission Airborne Mission Systems Specialist Simulator Refresher	Kirtland AFB, NM

**Table 11 Air National Guard Courses.**

<b>COURSE NUMBER</b>	<b>COURSE TITLE</b>	<b>LOCATION</b>
EC130JMK1W1QC	EC130J Airborne Electronic Communications Systems Operator - MK1W1QC	Harrisburg, PA
EC130JMK1N1QC	EC130J Airborne Electronic Communications Systems Operator - MK1N1QC	Harrisburg, PA
EC130JMK21QC	EC130J Airborne Electronic Communications Systems Operator - MK2	Harrisburg, PA
EC130JMK3PTU	Airborne Electronic Communications Systems Program Tech Course	Harrisburg, PA
EC130JIK3	Airborne Electronic Communications Systems Instructor Course	Harrisburg, PA

**Table 12 Air Force Special Operations Command Courses**

<b>COURSE NUMBER</b>	<b>COURSE TITLE</b>	<b>LOCATION</b>
MC130EIACES	Instructor AB Communication Equipment Operator Upgrade	Hurlburt Field, FL
MC130EACES	Airborne Communications Electronics Specialist Mission Qualification Course	Hurlburt Field, FL

## **Section F - MAJCOM Unique Resource Requirements**

*NOTE:* There are currently no MAJCOM unique resource requirements. This area is reserved.



THIS BLOCK FOR IDENTIFICATION PURPOSES ONLY		
NAME OF TRAINEE		
PRINTED NAME (Last, First Middle Initial)	INITIALS (Written)	SSAN
PRINTED NAME OF CERTIFYING OFFICIAL AND WRITTEN INITIALS		
N/I	N/I	
N/I	N/I	
N/I	N/I	
N/I	N/I	
N/I	N/I	
N/I		

### QUALITATIVE REQUIREMENTS

PROFICIENCY CODE KEY		
	SCALE VALUE	DEFINITION: The Individual
TASK PERFORMANCE LEVELS	1	Can do simple parts of the task. Needs to be told or shown how to do most of the task. (EXTREMELY LIMITED)
	2	Can do most parts of the task. Needs help only on hardest parts. (PARTIALLY PROFICIENT)
	3	Can do all parts of the task. Needs only a spot check of completed work. (COMPETENT)
	4	Can do the complete task quickly and accurately. Can tell or show others how to do the task. (HIGHLY PROFICIENT)
**TASK KNOWLEDGE LEVELS	a	Can name parts, tools, and simple facts about the task. (NOMENCLATURE)
	b	Can determine step by step procedures for doing the task. (PROCEDURES)
	c	Can identify why and when the task must be done and why each step is needed. (OPERATING PRINCIPLES)
	d	Can predict, isolate, and resolve problems about the task. (ADVANCED THEORY)
***SUBJECT KNOWLEDGE LEVELS	A	Can identify basic facts and terms about the subject. (FACTS)
	B	Can identify relationship of basic facts and state general principles about the subject. (PRINCIPLES)
	C	Can analyze facts and principles and draw conclusions about the subject. (ANALYSIS)
	D	Can evaluate conditions and make proper decisions about the subject. (EVALUATION)

### EXPLANATIONS

- \*\* A task knowledge scale value may be used alone or with a task performance scale value to define a level of knowledge for a specific task. (Examples: b and 1b)
- \*\*\* A subject knowledge scale value is used alone to define a level of knowledge for a subject not directly related to any specific task, or for a subject common to several tasks.
- This mark is used alone instead of a scale value to show that no proficiency training is provided in the course.
  - x This mark is used alone in course columns to show that training is required but not given due to limitations in resources.

TASKS, KNOWLEDGE AND TECHNICAL REFERENCES			3-Skill Level Course
1. CAREER FIELD INFORMATION			
AF Instructions	Technical Orders	Miscellaneous	
AFI 11-401			
AFI 11-402			
1.1. Duties and Progression Within 1A3XX AFSC			A
1.2. Security Clearances			-
1.3. Airborne Platforms			A
2. AIRCREW TRAINING/SUPERVISION			
AF Instructions	Technical Orders	Miscellaneous	
AFI 11-202 V1		Education & Training Course Announcement (ETCA)	
AFI 11-202 V2			
2.1. Training Qualifications			-
2.2. Standardization/Evaluation Functions			-
3. PUBLICATIONS AND TECHNICAL ORDERS			
AF Instructions	Technical Orders	Miscellaneous	
AFI 11-215			
AFI 33-360			
3.1. AF Technical Orders (T.O.)			-
3.2. Publications			A
3.3. AFTO IMT 781 Series			-
3.4. Complete AFTO IMT 781A			2b
4. MISSION SYSTEMS			
AF Instructions	Technical Orders	Miscellaneous	
	T.O. 1C-XXX-X		
4.1. Power Distribution			A
4.2. Cooling			A
5. AMS COMMUNICATIONS SECURITY (COMSEC)			
AF Instructions	Technical Orders	Miscellaneous	
AFI 33-201		DOD 5200.1R	
5.1. Security Precautions			A
5.2. Inventory COMSEC Kits			2b
5.3. Two Person Integrity (TPI)			A
5.4. Protect and Maintain Sensitive/Classified Information and Equipment			2b
5.5. Information Warfare			-
6. AIRBORNE SYSTEMS OPERATIONS AND MAINTENANCE			
AF Instructions	Miscellaneous	Miscellaneous	
AFI 10-706	Northrop Grumman Link 16 Technical Publication	Have Quick Users /SINGARS Handbooks	
		CJCSM 6120.01E	
	FLIP	Joint Pub 3-13.1	
		Airborne Communications Trainer Locally Derived Checklist	
6.1. Perform Mission Planning			2b
6.2. Complete System Checklists			2b
6.3. Isolate Malfunctions			2b
6.4. Restore Operations			2b
6.5. Remove and Replace LRUs			2b

TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	3-Skill Level Course
<b>6.6. Aircraft Communication Systems</b>	
6.6.1. UHF/VHF/HF	A
6.6.2. Operate UHF/VHF/HF	2b
6.6.3. Interphone	A
6.6.4. Operate Interphone	2b
6.7. Emergency Recorder/Locator	A
6.8. Satellite Communications (SATCOM) Systems Architecture	A
6.9. Military/Commercial SATCOM Systems	A
6.10. Multiple Access Principles/Techniques	A
<b>6.11. Anti-Jam Systems</b>	
6.11.1. Operations	A
6.11.2. Frequency Hopping	A
6.11.3. TADIL A	-
6.11.4. JTIDS	A
6.11.5. Operate Have-Quick	2b
6.12. Crypto-logic Systems	A
6.13. Operate Crypto-logic Systems	2b
6.14. Aircraft Defensive Systems	-
6.15. Electronic Warfare Categories	A
6.16. Communications Systems Integrity	A
6.17. EMSEC	-
6.18. DISN	A
6.19. Aircraft Navigational Systems	A
6.20. Identification Friend or Foe (IFF)	A
6.21. Operate IFF System	2b
<b>6.22. Computer Systems</b>	
6.22.1. Operation	A
6.22.2. Hardware Basics	A
6.22.3. Software Basics	A
<b>6.23. Computer Networking</b>	
6.23.1. Basics	A
6.23.2. Hardware	A
6.23.3. Network Malfunctions	A
6.24. Landline Interface Systems	-
6.25. Collection Receiver Systems	-
<b>6.26. Radar Systems</b>	
6.26.1. Radar Theory	A
6.26.2. Pulse Doppler	A
6.26.3. Pulse Radar	A
6.26.4. Synthetic Aperture Radar (SAR)	A

TASKS, KNOWLEDGE AND TECHNICAL REFERENCES			3-Skill Level Course
<b>7. BASIC ELECTRONICS/WAVE THEORY</b>			
<b>AF Instructions</b>	<b>Technical Orders</b>	<b>Miscellaneous</b>	
	<b>T.O. 31-1-141 Series</b>		
7.1. Metric Notation			A
7.2. Direct Current (DC)			A
7.3. Alternating Current (AC)			A
7.4. Circuit Operation			A
7.5. Power Supply/Voltage Regulator			A
7.6. Filters			A
7.7. Digital to Analog/Analog to Digital Converter			A
7.8. Oscillators			A
7.9. Microphone/Speaker			A
7.10. Electrostatic Discharge			A
7.11. Operate Test Equipment			2b
7.12. Wave Propagation			
7.12.1. Frequency Spectrum			A
7.12.2. Radio Wave Propagation			A
7.12.3. RF Modulation Techniques			A
7.12.4. Transmitter/Receiver Operations			A
7.12.5. Antennas			A
<b>8. TRANSMITTING &amp; RECEIVING PROTOCOLS</b>			
<b>AF Instructions</b>	<b>Technical Orders</b>	<b>Miscellaneous</b>	
<b>AFH 11-203, V1</b>		<b>ACP 131</b>	
		<b>ACP 125</b>	
		<b>ACP 135</b>	
		<b>FLIP</b>	
8.1. Log Keeping			-
8.2. Transcribe Log Entries			2b
8.3. Radiotelephone Procedures			A
8.4. Perform Standard Radiotelephone Procedures			2b
8.5. Net Control (Voice)			
8.5.1. Circuit Discipline			-
8.5.2. Authentication Procedures			-
8.5.3. Perform Authentication Procedures			2b
8.6. Net Control (Data)			
8.6.1. Satellite			-
8.6.2. Air to Air/Air to Ground			-
8.7. Weather Reports			
8.7.1. Transcribe			2b
8.7.2. Pilot Report (PIREP)			-
8.8. Air Traffic Control (ATC)			
8.8.1. ATC Organizations/Operations			A
8.8.2. Perform ATC Communications Procedures			2b
8.9. Emergency Communications			A